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| L3 | 14 | @ad<"19990818" and "709"/235, 245-247.ccls. and (address\$4 near5 translat\$4 NAT) near10 table\$1 and control near10 packet\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:12 |
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| L9 | 14 | (RTP RTSP) near10 control\$4 near10 port\$4 and @ad<"19990818" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:13 |
| L10 | 2 | L8 and L9 and NAT | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:13 |

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| L13 | 1 | RTCP same NAT and @ad<"19990818" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:14 |
| L14 | 8 | RTCP same NAT and @ad<"20020212" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:14 |
| L15 | 4 | @ad<"19990818" and "709"/245. ccls. and (address\$4 near5 translat\$4 NAT) near10 table\$1 near10 port\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:21 |
| L16 | 461 | (RTSP RTP or real near3 time near5 protocol\$4) near10 gateway\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:29 |
| L17 | 0 | (server\$1 cluster\$4) near10 (setup set\$4 adj up creat\$4) near10 (tunnel\$4 channel\$4 path\$1) near10 (address near10 translat\$4) and @ad<"19990818" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:29 |
| L18 | 3 | port\$1 near10 allocat\$4 near10 (real adj time near5 protocol) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:29 |
| L19 | 5 | config\$6 near10 (rout\$1 gateway\$2) near10 table\$1 and 709/227-232. ccls. and @ad<"20020212" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:30 |
| L20 | 9 | config\$6 near10 (rout\$1 gateway\$2) near10 table\$1 and 709/223-226. ccls. and @ad<"20020212" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:30 |

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|-----|----|---|---|----|-----|------------------|
| L21 | 93 | (RTSP or real near3 time near3 stream\$4 near5 protocol\$4) same port\$4 and @ad<"20020212" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/12/07 08:40 |
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Relevance scale ☐ ☐ ☐ ☐ ☐1 [Automatic parsing for content analysis](#)

Frederick J. Damerau

June 1970 **Communications of the ACM**, Volume 13 Issue 6

Publisher: ACM Press

Full text available: [pdf\(4.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Although automatic syntactic and semantic analysis is not yet possible for all of an unrestricted natural language text, some applications, of which content analysis is one, do not have such a stringent coverage requirement. Preliminary studies show that the Harvard Syntactic Analyzer can produce correct and unambiguous identification of the subject and object of certain verbs for approximately half of the relevant occurrences. This provides a degree of coverage for content analysis variable ...

Keywords: content analysis, information retrieval, language analysis, natural language processing, parsing, syntactic analysis, text processing

2 [A logical theory of concurrent objects](#)

José Meseguer

 September 1990 **ACM SIGPLAN Notices , Proceedings of the European conference on object-oriented programming on Object-oriented programming systems, languages, and applications OOPSLA/ECOOP '90**, Volume 25 Issue 10

Publisher: ACM Press

 Full text available: [pdf\(2.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A new theory of concurrent objects is presented. The theory has the important advantage of being based directly on a logic called rewriting logic in which concurrent object-oriented computation exactly corresponds to logical deduction. This deduction is performed by concurrent rewriting modulo structural axioms of associativity, commutativity and identity that capture abstractly the essential aspects of communication in a distributed object-oriented configu ...

3 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

 Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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4 RT-MODULA2: an embedded in MODULA2 language for writing concurrent and real time programs



Juan Hernández, Juan Antonio Sanchez

February 1992 **ACM SIGPLAN Notices**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: [pdf\(626.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

RT-Modula2 is a Modula2 extension for developing concurrent and real-time software. RT-Modula2 gives a simple, structured and modular way of building concurrent and time depending programs. A new process scheduler has been built, and it has been specially designed for real time processes. This scheduler supports both, ordinary and time depending processes for writing concurrent and real time systems. In this paper, we present key features of RT-Modula2 at the implementation and syntactic level. ...

5 Translator writing systems



Jerome Feldman, David Gries

February 1968 **Communications of the ACM**, Volume 11 Issue 2

Publisher: ACM Press

Full text available: [pdf\(4.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

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Keywords: compiler compiler-compiler, generator, macroprocessor, meta-assembler, metacompiler, parser, semantics, syntactic analysis, syntax, syntax-directed, translator, translator writing system

6 Discourse segmentation by human and automated means

Rebecca J. Passonneau, Diane J. Litman

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Publisher: MIT Press

Full text available: [pdf\(2.71 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
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The need to model the relation between discourse structure and linguistic features of utterances is almost universally acknowledged in the literature on discourse. However, there is only weak consensus on what the units of discourse structure are, or the criteria for recognizing and generating them. We present quantitative results of a two-part study using a corpus of spontaneous, narrative monologues. The first part of our paper presents a method for empirically validating multitutterance units ...

7 Information storage and retrieval: a survey and functional description



Jack Minker

September 1977 **ACM SIGIR Forum**, Volume 12 Issue 2

Publisher: ACM Press

Full text available: [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

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Keywords: automatic indexing, data management, data structures, deductive search, information retrieval, natural language, problem solving, question-answering, relational data systems, theorem proving

8 DHTTP: an efficient and cache-friendly transfer protocol for the web

Michael Rabinovich, Hua Wang

December 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 6

Publisher: IEEE Press

Full text available:  pdf(487.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today's HTTP carries Web interactions over client-initiated TCP connections. An important implication of using this transport method is that interception caches in the network violate the end-to-end principle of the Internet, which severely limits deployment options of these caches. Furthermore, while an increasing number of Web interactions are short, and in fact frequently carry only control information and no data, TCP is often inefficient for short interactions We propose a new transfer prot ...

Keywords: HTTP protocol, interception caching, internet, web performance

9 TROLL: a language for object-oriented specification of information systems



Ralf Jungclaus, Gunter Saake, Thorsten Hartmann, Cristina Sernadas

April 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available:  pdf(2.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

TROLL is a language particularly suited for the early stages of information system development, when the universe of discourse must be described. In TROLL the descriptions of the static and dynamic aspects of entities are integrated into object descriptions. Sublanguages for data terms, for first-order and temporal assertions, and for processes, are used to describe respectively the static properties, the behavior, and the evolution over time of objects. TROLL organizes system design throug ...

10 Relational Database Systemsr



Won Kim

September 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 3

Publisher: ACM Press

Full text available:  pdf(2.67 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Requirements and specifications: Real-time specification patterns



Sascha Konrad, Betty H. C. Cheng

May 2005 **Proceedings of the 27th international conference on Software engineering**

Publisher: ACM Press

Full text available:  pdf(374.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Embedded systems are pervasive and frequently used for critical systems with time-dependent functionality. Dwyer *et al* have developed qualitative specification patterns to facilitate the specification of critical properties, such as those that must be satisfied by embedded systems. Thus far, no analogous repository has been compiled for real-time specification patterns. This paper makes two main contributions: First, based on an analysis of timing-based requirements of several industrial ...

Keywords: embedded systems, formal specification, patterns, real-time requirements

12 Should your specification language be typed



Leslie Lamport, Lawrence C. Paulson

May 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(275.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most specification languages have a type system. Type systems are hard to get right, and getting them wrong can lead to inconsistencies. Set theory can serve as the basis for a specification language without types. This possibility, which has been widely overlooked, offers many advantages. Untyped set theory is simple and is more flexible than any simple typed formalism. Polymorphism, overloading, and subtyping can make a type system more powerful, but at the cost of increased complexity, a ...

Keywords: set theory, specification, types

13 Requirements interaction management



William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov

June 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 2

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Requirements interaction management (RIM) is the set of activities directed toward the discovery, management, and disposition of critical relationships among sets of requirements, which has become a critical area of requirements engineering. This survey looks at the evolution of supporting concepts and their related literature, presents an issues-based framework for reviewing processes and products, and applies the framework in a review of RIM state-of-the-art. Finally, it presents seven research ...

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and design, composite system, deficiency driven design, dependency analysis, distributed intentionality, interaction analysis, software cost reduction (SCR), system architecture, system specification, viewpoints

14 A logical semantics for object-oriented databases



José Meseguer, Xiaolei Qian

June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(1.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although the mathematical foundations of relational databases are very well established, the state of affairs for object-oriented databases is much less satisfactory. We propose a semantic foundation for object-oriented databases based on a simple logic of change called rewriting logic, and a language called MaudeLog that is based on that logic. Some key advantages of our approach include its logical nature, its simplicity without any need for higher-order features, the fact ...

15 Syntax-directed least-errors analysis for context-free languages: a practical approach



Gordon Lyon

January 1974 **Communications of the ACM**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(1.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

terms

A least-errors recognizer is developed informally using the well-known recognizer of Earley, along with elements of Bellman's dynamic programming. The analyzer takes a general class of context-free grammars as drivers, and any finite string as input. Recognition consists of a least-errors count for a corrected version of the input relative to the driver grammar. The algorithm design emphasizes practical aspects which help in programming it.

Keywords: arbitrary input strings, context-free grammars, dynamic programming, least-errors connection, parsing, separability, state merging, stored subanalysis

16 A generic type system for the Pi-calculus



Atsushi Igarashi, Naoki Kobayashi

January 2001 **ACM SIGPLAN Notices , Proceedings of the 28th ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '01**, Volume 36 Issue 3

Publisher: ACM Press

Full text available: pdf(1.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a general, powerful framework of type systems for the π -calculus, and show that we can obtain as its instances a variety of type systems guaranteeing non-trivial properties like deadlock-freedom and race-freedom. A key idea is to express types and type environments as abstract processes: We can check various properties of a process by checking the corresponding properties of its type environment. The framework clarifies the essence of recent complex type systems, and it also en ...

17 Mechanizing a theory of program composition for UNITY



Lawrence C. Paulson

September 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23 Issue 5

Publisher: ACM Press

Full text available: pdf(367.50 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Compositional reasoning must be better understood if non-trivial concurrent programs are to be verified. Chandy and Sanders [2000] have proposed a new approach to reasoning about composition, which Charpentier and Chandy [1999] have illustrated by developing a large example in the UNITY formalism. The present paper describes extensive experiments on mechanizing the compositionality theory and the example, using the proof tool Isabelle. Broader issues are discussed, in particular, the formalization ...

Keywords: Isabelle, UNITY, compositional reasoning, concurrency

18 Pen computing: a technology overview and a vision



André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(5.14 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

19 Defining the semantics of verbal modifiers in the domain of cooking tasks


Robin F. Karlin

June 1988 **Proceedings of the 26th annual meeting on Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available:  pdf(651.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

 [Publisher Site](#)

SEAFAC (Semantic Analysis For the Animation of Cooking Tasks) is a natural language interface to a computer-generated animation system operating in the domain of cooking tasks. SEAFAC allows the user to specify cooking tasks using a small subset of English. The system analyzes English input and produces a representation of the task which can drive motion synthesis procedures. This paper describes the semantic analysis of verbal modifiers on which the SEAFAC implementation is based.


20 [Picture Processing by Computer](#)



Azriel Rosenfeld

September 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 3

Publisher: ACM Press

Full text available:  pdf(2.69 MB)

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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research****Publisher:** IBM PressFull text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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2 [RT-MODULA2: an embedded in MODULA2 language for writing concurrent and real time programs](#)

Juan Hernández, Juan Antonio Sanchez

February 1992 **ACM SIGPLAN Notices**, Volume 27 Issue 2**Publisher:** ACM PressFull text available: [pdf\(626.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

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
4 Discourse segmentation by human and automated means

Rebecca J. Passonneau, Diane J. Litman

March 1997 **Computational Linguistics**, Volume 23 Issue 1

Publisher: MIT Press

Full text available:

 [pdf\(2.71 MB\)](#)



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

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
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Publisher: ACM Press

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
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Keywords: automatic indexing, data management, data structures, deductive search, information retrieval, natural language, problem solving, question-answering, relational data systems, theorem proving

8 A generic type system for the Pi-calculus



Atsushi Igarashi, Naoki Kobayashi

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Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Document access and understanding: Methods for the semantic analysis of document markup



Petra Saskia Bayerl, Harald Lungen, Daniela Goecke, Andreas Witt, Daniel Naber

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Publisher: ACM Press

Full text available: [pdf\(230.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach on how to investigate what kind of semantic information is regularly associated with the structural markup of scientific articles. This approach addresses the need for an explicit formal description of the semantics of text-oriented XML-documents. The domain of our investigation is a corpus of scientific articles from psychology and linguistics from both English and German online available journals. For our analyses, we provide XML-markup representing two kinds of semantic ...

Keywords: XML, information extraction, prolog, semantic analysis

12 Bioinformatics—an introduction for computer scientists




Jacques Cohen

June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2

Publisher: ACM Press

Full text available:

Additional Information:

 [pdf\(261.56 KB\)](#)[full citation](#), [abstract](#), [references](#), [index terms](#)


The article aims to introduce computer scientists to the new field of bioinformatics. This area has arisen from the needs of biologists to utilize and help interpret the vast amounts of data that are constantly being gathered in genomic research---and its more recent counterparts, proteomics and functional genomics. The ultimate goal of bioinformatics is to develop in silico models that will complement in vitro and in vivo biological experiments. The article provides a bird's eye view of the ...

Keywords: DNA, Molecular cell biology, RNA and protein structure, alignments, cell simulation and modeling, computer, dynamic programming, hidden-Markov-models, microarray, parsing biological sequences, phylogenetic trees

13 [Unification: a multidisciplinary survey](#)



Kevin Knight


March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(2.90 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The unification problem and several variants are presented. Various algorithms and data structures are discussed. Research on unification arising in several areas of computer science is surveyed; these areas include theorem proving, logic programming, and natural language processing. Sections of the paper include examples that highlight particular uses of unification and the special problems encountered. Other topics covered are resolution, higher order logic, the occur check, infinite term ...

14 [CMIFed: a transportable hypermedia authoring system](#)




Lynda Hardman, Guido van Rossum, Jack Jansen, Sjoerd Mullender

October 1994 **Proceedings of the second ACM international conference on Multimedia****Publisher:** ACM PressFull text available:  [pdf\(1.93 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 [Sequential thematic organization of publications: how to achieve coherence in proposals and reports](#)




J. R. Tracey, D. E. Rugh, W. S. Starkey

August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(3.80 MB\)](#)Additional Information: [full citation](#), [index terms](#)

16 [Other contributed papers: Computational aspects of discourse in the context of MUC-3](#)



Lucja Iwańska, Douglas Appelt, Damaris Ayuso, Kathy Dahlgren, Bonnie Glover Stalls, Ralph Grishman, George Krupka, Christine Montgomery, Ellen Riloff

May 1991 **Proceedings of the 3rd conference on Message understanding MUC3 '91****Publisher:** Association for Computational LinguisticsFull text available:  [pdf\(2.07 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

Discourse comprises those phenomena that usually do not arise when processing a single sentence. It appears to be the most difficult and probably the least understood aspect of automated message understanding. Five out of fifteen sites on a MUC-3 survey listed discourse as their main weakness and an area in which to concentrate future research. Virtually all systems presented here take a sentence-by-sentence approach to text understanding. Parsing and domain-dependent interpretation of sentences ...


**17 Perspectives on database theory**

 Mihalis Yannakakis
September 1996 **ACM SIGACT News**, Volume 27 Issue 3


Publisher: ACM Press

Full text available:  pdf(2.13 MB) Additional Information: [full citation](#), [index terms](#)

18 A logical theory of concurrent objects


 José Meseguer
September 1990 **ACM SIGPLAN Notices , Proceedings of the European conference on object-oriented programming on Object-oriented programming systems, languages, and applications OOPSLA/ECOOP '90**, Volume 25 Issue 10

Publisher: ACM Press

Full text available:  pdf(2.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A new theory of concurrent objects is presented. The theory has the important advantage of being based directly on a logic called rewriting logic in which concurrent object-oriented computation exactly corresponds to logical deduction. This deduction is performed by concurrent rewriting modulo structural axioms of associativity, commutativity and identity that capture abstractly the essential aspects of communication in a distributed object-oriented configu ...

19 Developing a natural language interface to complex data

 Gary G. Hendrix, Earl D. Sacerdoti, Daniel Sagalowicz, Jonathan Slocum
June 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 2


Publisher: ACM Press

Full text available:  pdf(3.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Aspects of an intelligent interface that provides natural language access to a large body of data distributed over a computer network are described. The overall system architecture is presented, showing how a user is buffered from the actual database management systems (DBMSs) by three layers of insulating components. These layers operate in series to convert natural language queries into calls to DBMSs at remote sites. Attention is then focused on the first of the insulating components, th ...

Keywords: database access, human engineering, intelligent interface, natural language, run-time personalization, semantic grammar

20 Document Formatting Systems: Survey, Concepts, and Issues

 Richard Furuta, Jeffrey Scofield, Alan Shaw
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available:  pdf(5.36 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

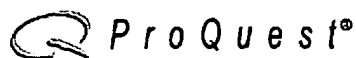
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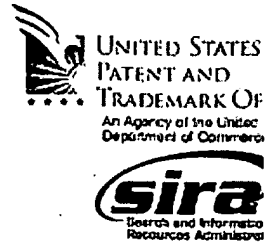
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